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(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KUIPER, Stein** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **HENDRIKS, Bernardus, H., W.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: **VISSER, Derk**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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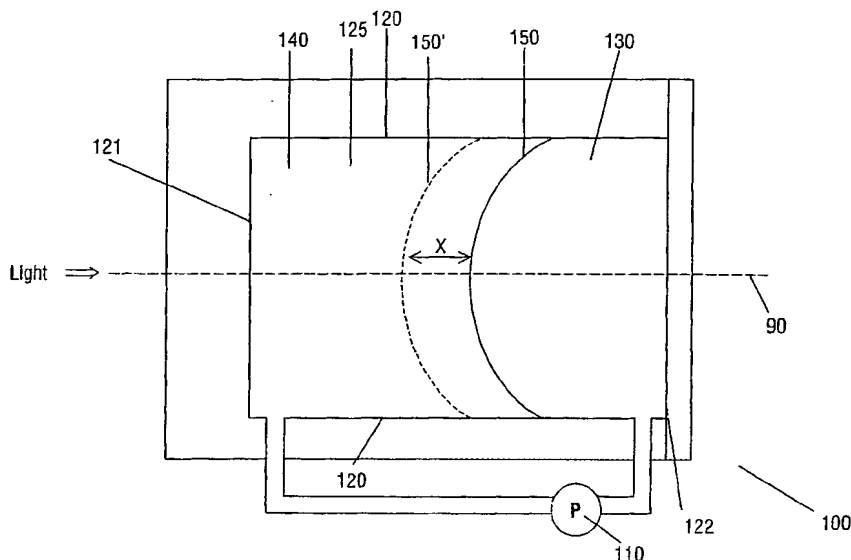
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[Continued on next page]

(54) Title: **VARIABLE LENS**



(57) Abstract: A variable lens (100; 200; 300; 400; 500; 600) is described. The lens (100; 200; 300; 400; 500; 600) comprises a chamber (125) defined by at least one side wall and having an optical axis (90) extending longitudinally through the chamber. The chamber (125) contains a first fluid (130) and a second fluid (140) in contact over a meniscus (150) extending transverse the optical axis (90). The perimeter of the meniscus (150) is constrained by the side walls (125). The fluids (130, 140) are substantially immiscible, and have different indices of refraction. At least one pump (110; 112, 114, 116, 152; 422) is arranged to controllably alter the position of the meniscus (150) along the optical axis (90) by altering the relative volume of each of the fluids (130, 140) contained within the chamber (125).

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